

ABSTRACT OF THE DISCLOSURE

A random number generating circuit comprises: the seed  
generating circuit which generates a seed; and a pseudo random  
5 number circuit which generates pseudo random numbers based  
on the seed generated by the seed generating circuit. The  
seed generating circuit has: an oscillating circuit which  
oscillates continuously or intermittently, and which outputs  
a digital data sequence; a smoothing circuit which outputs  
10 time series data by controlling appearance frequencies of  
"0" and "1" in the digital data sequence outputted from the  
oscillating circuit; and a postprocessing circuit which  
generates one-bit seed by a computation using a plurality  
of bits included in the time series data.